

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2101	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 2101 Blewett	U	3.51				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	2.88		2.88	82.05%		
Trim / Thin Trees	1.88		1.88	53.56%		
Encroachments	0.01		0.01	0.29%	1.04	
Animal Control	0.03		0.03	0.86%		
Erosion / Bank Caving	0.01		0.01	0.29%		
Crown Surface / Depressions / Rutting	0.02		0.02	0.57%		
DWR Erosion Survey		0.10	0.40	11.40%		
<i>LMA Totals:</i>	4.83	0.10	5.23	149.00%	1.04	0.00

Unit No. 01 San Joaquin River	Overall Unit Rating	Total Unit Miles				
	U	3.20				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	2.88		2.88	90.00%		
Trim / Thin Trees	1.88		1.88	58.75%		
Encroachments	0.01		0.01	0.31%	1.04	
Animal Control	0.03		0.03	0.94%		
Crown Surface / Depressions / Rutting	0.02		0.02	0.63%		
DWR Erosion Survey		0.10	0.40	12.50%		
<i>Unit Totals:</i>	4.82	0.10	5.22	163.13%	1.04	0.00

Unit No. 02 San Joaquin River (Spur Levee)	Overall Unit Rating	Total Unit Miles				
	A	0.31				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Erosion / Bank Caving	0.01		0.01	3.23%		
<i>Unit Totals:</i>	0.01	0.00	0.01	3.23%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2009 Levee Inspection Results

Reclamation District No. 2101 Blewett

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 2101 Blewett

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	3.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/6/2009		11/4/2009	
DWR Inspector	David Pesavento		John Paasch	
Accompanied By			Jim Coddington RD 2101	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2101 Blewett

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	3.20	11/13/2009 12/09/2009	John Paasch

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.04	2.79	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: In the past Department of Fish and Game did not allow this RD to touch WS vegetation. No removal has been planned in response to DFG policies. During inspection Fish & Game stated they would now allow vegetation maintenance on water side.	37.657587 ° -121.254147 °	37.641538 ° -121.229748 °	2
2	0.04	0.14	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: In the past Department of Fish and Game did not allow this RD to touch WS vegetation. No removal has been planned in response to DFG policies. During inspection Fish & Game stated they would now allow vegetation maintenance on water side.	37.657583 ° -121.254142 °	37.657390 ° -121.252670 °	3
3	0.09	0.21	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.657696 ° -121.253099 °	37.657234 ° -121.251512 °	947 Y
4	0.17	0.17	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.656892 ° -121.252109 °	37.656892 ° -121.252109 °	948
5	0.23	2.01	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: In the past Department of Fish and Game did not allow this RD to touch WS vegetation. No removal has been planned in response to DFG policies. During inspection Fish & Game stated they would now allow vegetation maintenance on water side.	37.657200 ° -121.251437 °	37.649872 ° -121.227952 °	5 Y
6	0.27	0.32	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.657760 ° -121.250752 °	37.658184 ° -121.249946 °	949
7	0.76	1.80	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.659827 ° -121.243675 °	37.651049 ° -121.231475 °	944 Y
8	1.18	1.18	Earthen Levee	Encroachments	WS	M	Tree or limb	37.654722 ° -121.240698 °	37.654722 ° -121.240698 °	950
9	1.35	1.35	Earthen Levee	Vegetation	CR	M	Elderberries are blocking visibility and flood fight capability.	37.653066 ° -121.238162 °	37.653066 ° -121.238162 °	951
10	1.40	1.40	Earthen Levee	Crown Surface / Depressions / Rutting	WS	M	Inspector Comments: Several lateral cracks have appeared on levee crown.	37.652835 ° -121.237586 °	37.652835 ° -121.237586 °	952 Y
11	1.91	2.00	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: recommend annual assessment and monitoring of critical erosion site, per CLRO CES Evaluation 2008 Report; site # same as RM76.3, LM1.89; previously rated "U" [2009 SiteID:RD2101U1RM73.92]	37.650259 ° -121.228961 °	37.650259 ° -121.228961 °	1

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2101 Blewett

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 01 San Joaquin River				Left	3.20	11/13/2009 12/09/2009	John Paasch		

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
12	1.98	1.98	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.650001 ° -121.228070 °	37.650001 ° -121.228070 °	953
13	2.04	2.04	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Inspector Comments: Dips in the road at 30-ft intervals could be due to lateral cracking in the levee and/or shallow animal burrows. The road is graded annually to smooth road surface but subsurface condition is unknown.	37.649547 ° -121.227316 °	37.649547 ° -121.227316 °	954
14	2.06	2.06	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.649382 ° -121.226997 °	37.649382 ° -121.226997 °	955
15	2.45	2.45	Earthen Levee	Animal Control	LS	C	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: This deficiency could not be located during this inspection.	37.645232 ° -121.227033 °	37.645232 ° -121.227033 °	946

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Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.20	11/13/2009 12/09/2009	John Paasch

Levee Mile Report Line	3
Start Levee Mile	0.09
End Levee Mile	0.21
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Vegetation on land side slope of the levee near the crown obstructs visibility.

jpaasch_20091116_201.jpg



Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	2.01
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees on top 20-ft of waterside slope block access and visibility.

jpaasch_20091116_205.jpg



Levee Mile Report Line	7
Start Levee Mile	0.76
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Cement lined ditch is within 10-ft of the landside levee toe. Section of levee in photo failed in 1997-1998.

jpaasch_20091116_203.jpg



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Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.20	11/13/2009 12/09/2009	John Paasch

Levee Mile Report Line	10
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Water Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
One of several latitudinal cracks across the levee crown.	
jpaasch_20091116_204.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 2101 Blewett

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River (Spur Levee)			Right	0.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/6/2009		11/4/2009	
DWR Inspector	David Pesavento		John Paasch	
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LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.31	0.31	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Issue #2 RD 2101. At the end of this spur two rivers converge and due to past high water events a large scour hole has been formed. It is now filled in with vegetation. The next HW event could further scour this large hole.	37.663998 ° -121.242925 °	37.663998 ° -121.242925 °	2 Y

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River (Spur Levee)	Right	0.31	11/13/2009 11/13/2009	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.31
End Levee Mile	0.31
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Fall 2009 photo of scour hole located at end of the spur levee.

jpaasch_20091116_206.jpg



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WS : Water Side
CR : Crown

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